

DECLARATION AND POWERS OF ATTORNEY

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

DSP-BASED DATA RECOVERY

the specification of which was filed on April 27, 2004 as Application Serial No. PCT/EP 2004/004406 and was amended on _____, or, if not identified here by filing date and serial number, is attached hereto.

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to the examination of this application in accordance with 37 CFR 1.56.

I hereby claim foreign priority benefits under 35 USC 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate by me or my representatives or assigns for this invention having a filing date before that of the application on which priority is claimed.

Application No. 03010998.7 in EP on May 16, 2003 priority claimed ☒ Yes ☐ No

Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No

Application No. _____ in _____ on _____ priority claimed ☐ Yes ☐ No

I hereby claim the benefit under 35 USC 119(e) of any United States provisional application(s) as listed below.

Application No. _____ Filed _____

Application No. _____ Filed _____

I hereby claim the benefit under 35 USC 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of 35 USC 112, I acknowledge the duty to disclose material information as defined in 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application

Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned

Serial No. _____ Filed _____ ☐ patented ☐ pending ☐ abandoned

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 USC 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

I hereby appoint, individually and collectively, the following as my/our attorney or agent with full power of substitution and revocation, to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith:

Joseph S. Tripoli	Registration No. <u>26,040</u>	and
Joseph J. Laks	Registration No. <u>27,914</u>	and
Harvey D. Fried	Registration No. <u>28,298</u>	and
Ronald H. Kurdyla	Registration No. <u>26,932</u>	and
Robert D. Shedd	Registration No. <u>36,269</u>	and
Vincent E. Duffy	Registration No. <u>39,964</u>	and
Robert B. Levy	Registration No. <u>28,234</u>	

PLEASE ADDRESS ALL
COMMUNICATIONS TO:

JOSEPH S. TRIPOLI
PATENT OPERATIONS
THOMSON LICENSING INC.
P. O. BOX 5312
PRINCETON, NEW JERSEY 08543-5312

Sole or Joint Inventor (1)	<u>Klaus Gaedke</u> (Type or Print)	<u>Klaus Gaedke</u> (Signature in Full. No initials.)
Citizenship	<u>DE</u>	Date <u>25th of August 2005</u>
Post Office Address	<u>Schaumannweg 22</u>	
Residence	<u>30659 Hannover, Germany</u>	
Sole or Joint Inventor (2)	<u>Friedrich Timmermann</u> (Type or Print)	<u>Friedrich Timmermann</u> (Signature in Full. No initials.)
Citizenship	<u>DE</u>	Date <u>25. August. 2005</u>
Post Office Address	<u>Moehlenbrinkstr. 6</u>	
Residence	<u>30823 Garbsen, Germany</u>	
Sole or Joint Inventor (3)	<u>Axel Kochale</u> (Type or Print)	<u>Axel Kochale</u> (Signature in Full. No initials.)
Citizenship	<u>DE</u>	Date <u>25th of August 2005</u>
Post Office Address	<u>Beckerweg 1</u>	
Residence	<u>31832 Springe, Germany</u>	

Sole or Joint Inventor (4)	<u>Ralf-Detlef Schaefer</u>	<u><i>Ralf-Detlef Schaefer</i></u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>DE</u>	Date <u>25.8.2005</u>
Post Office Address	<u>Hannoversche Heerstr. 21</u>	
Residence	<u>29221 Celle, Germany</u>	
Sole or Joint Inventor (5)	<u>Herbert Schütze</u>	<u><i>Herbert Schütze</i></u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>DE</u>	Date <u>25.8.2005</u>
Post Office Address	<u>Ringweg 2</u>	
Residence	<u>29227 Celle, Germany</u>	
Sole or Joint Inventor (6)	<u>Marten Kabutz</u>	<u></u>
	(Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>ZA</u>	Date <u></u>
Post Office Address	<u>Pforzheimer Str. 15</u>	
Residence	<u>78048 Villingen-Schwenningen, Germany</u>	

Patent Operations
Thomson Licensing Inc.
P.O. Box 5312
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<u>Ronald H. Kurdyla</u>	<u>Registration No. 26,932</u>	<u>and</u>
<u>Robert D. Shedd</u>	<u>Registration No. 36,269</u>	<u>and</u>
<u>Vincent E. Duffy</u>	<u>Registration No. 39,964</u>	<u>and</u>
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Citizenship	<u>DE</u>	Date
Post Office Address	<u>Ringweg 2</u>	
Residence	<u>29227 Celle, Germany</u>	
Sole or Joint Inventor (6)	<u>Marten Kabutz</u> (Type or Print)	(Signature in Full. No initials.)
Citizenship	<u>ZA</u>	Date <u>19.9.05</u>
Post Office Address	<u>Pforzheimer Str. 15</u>	
Residence	<u>78048 Villingen-Schwenningen, Germany</u>	

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Approved for use through 11/30/2005, OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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D POWER OF ATTORNEY and CORRESPONDENCE ADDRESS INDICATION FORM	Application Number	
	Filing Date	
	First Named Inventor	KLAUSS GAEDKE et al.
	Title	DSP-BASED DATA RECOVERY
	Art Unit	
	Examiner Name	
	Attorney Docket Number	PD030048

I hereby appoint:

☒ Practitioners at Customer Number
 OR

Customer Number 24498

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

<input type="checkbox"/> Firm or Individual Name	Joseph S. Tripoli, Patent Operations				
Address	THOMSON LICENSING INC.				
Address	P. O. BOX 5312				
City	PRINCETON	State	NJ	ZIP	08543-5312
Country	USA				
Telephone	609-734-6818	Fax	609-734-6888		

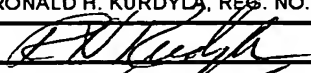
I am the:

☐ Applicant/Inventor.

☒ Assignee of record of the entire interest. See 37 CFR 3.71.

Certificate under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96).

SIGNATURE of Applicant or Assignee of Record

Name	RONALD H. KURDYLA, REG. NO. 26,932		
Signature			
Date	10-17-05	Telephone	609-734-6818

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 3 forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**POWER OF ATTORNEY
THOMSON LICENSING**

We,

THOMSON LICENSING
46, Quai A. Le Gallo
F-92100 Boulogne-Billancourt
France

do hereby grant

Joseph S. Tripoli
Senior Vice President
Thomson Licensing Inc.
Two Independence Way
Princeton, New Jersey 08540


a revocable, non-exclusive and delegable power of attorney to act for us (including the signing of requisite documents) in proceedings concerning patents and applications for patents, including international and other multi-country patents and applications for patents, in our name in the Patent Offices in all countries worldwide from July 1, 2005

DATED this 7 day of July, in the year 2005.

Signature:

Typed Name As Signed:

Title:



Julian Waldron
President

**POWER OF ATTORNEY
THOMSON LICENSING**

THOMSON LICENSING
46, Quai A. Le Gallo
F-92100 Boulogne-Billancourt
France

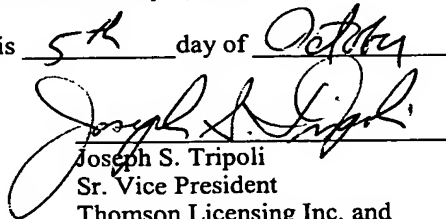
does hereby grant

Joseph J. Laks - Vice President
Harvey D. Fried - Sr. Patent Counsel/Manager
Ronald H. Kurdyla - Sr. Patent Counsel/Manager
Robert D. Shedd - Sr. Patent Counsel/Manager
Robert B. Levy - Sr. Patent Counsel/Manager
Frank Y. Liao - Sr. Patent Counsel/Manager
Reitseng Lin - Sr. Patent Counsel
Christine Johnson - Sr. Patent Counsel
Guy H. Eriksen - Sr. Patent Counsel
Catherine A. Ferguson - Sr. Patent Counsel
Joseph J. Kolodka - Sr. Patent Counsel
Kuniyuki Akiyama - Sr. Patent Counsel
Paul P. Kiel - Sr. Patent Counsel
Jeffrey M. Navon - Sr. Patent Counsel
Joel M. Fogelson - Sr. Patent Counsel
Joseph J. Opalach - Sr. Patent Counsel
Sammy S. Henig - Sr. Patent Counsel
Patricia A. Verlangieri - Sr. Patent Counsel
Jorge Tony Villabon - Patent Counsel
Vincent E. Duffy - Patent Counsel
Richard LaPeruta - Patent Counsel
Francis A. Davenport - Sr. Patent Agent
William A. Lagoni - Patent Agent
Brian J. Cromarty - Patent Agent
Ronald Kolczynski - Member Patent Staff
Michael A. Pugel - Patent Agent
Thomson Licensing Inc.
Two Independence Way
Princeton, New Jersey 08540

a revocable, non-exclusive and delegable power of attorney to act for us (including the signing of requisite documents) in proceedings concerning patents and applications for patents, including international and other multi-country patents and applications for patents, in our name in the Patent Offices in all countries worldwide from July 1, 2005.

DATED this 5th day of October, 2005.

SIGNED


Joseph S. Tripoli
Sr. Vice President
Thomson Licensing Inc. and
Attorney In Fact for
THOMSON LICENSING

WITNESS

David Fournier